

# Back Up to a Thermal Oxidiser at a Pharmaceutical Manufacturing Plant

## Who are MEGTEC?

Solvent Recovery & Adsorption plant specialists - Sutcliffe Croftshaw, UK; Barnebey & Sutcliffe, USA and Vara, USA are all now part of MEGTEC.

We have been designing, installing and maintaining Solvent Recovery plants across the world for over 70 years.

MEGTEC also offer a range of thermal oxidisers for all applications



## The Problem

All vent collection headers, containing VOCs including chlorinated organics vent to a thermal oxidiser.

Unfortunately high concentrations cause the oxidiser to trip out periodically. Under these conditions the VOCs pass to atmosphere untreated. This has been tolerated by Environmental Authorities in the past, but is now not acceptable.

Replacing the oxidiser is not an option due to the cost and the time the plant will have to be down to achieve this.

## The Solution - MEGTEC Adsorption Skid

MEGTEC Environmental designed and built a skid mounted adsorption system. The adsorbers were sized to adsorb the maximum flow of organics delivered to the oxidiser for a period of 5 hours, which gives more than enough time to get the oxidiser back on stream.

The whole project was completed in less than 5 months minimising the delays the site had to suffer due to the change of heart of the Environmental Authorities.

## The Solution- Project

Two adsorbers were provided allowing the carbon to be changed in one adsorber while the other is still available for in the event of an oxidiser trip.

Gas conditioning provided to reduce relative humidity and maximise adsorption capacity.

HazOp completed and safety features built in to the plant.

The skid was built using the client's preferred equipment bands and mechanical standards.

Factory Acceptance Test carried out prior to delivery to site, minimising start up times



## MEGTEC Skid Mounted Adsorption Systems

Systems are individually designed and can take into account client specifications and preferred equipment suppliers.

Skids supplied complete with PLC control system, or Functional design Specification to allow control by the client's distributed control system.

MEGTEC Environmental Ltd is accredited to ISO9001:2000

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